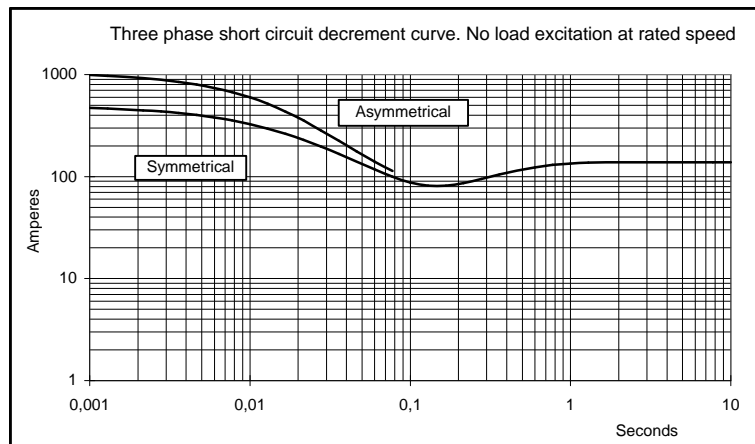
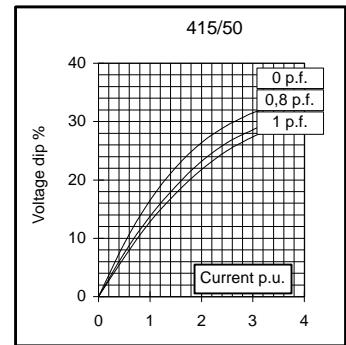
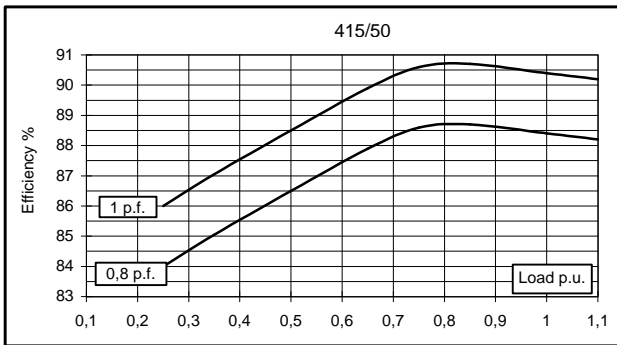
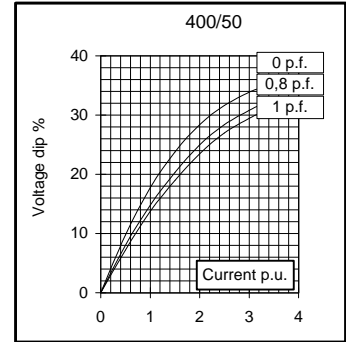
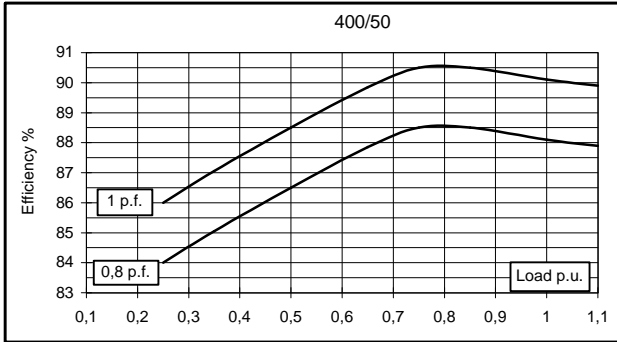
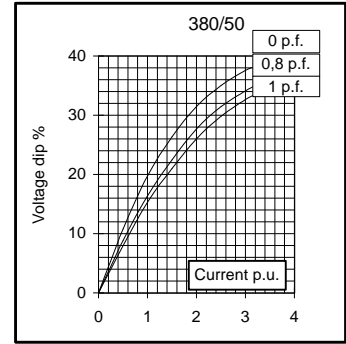
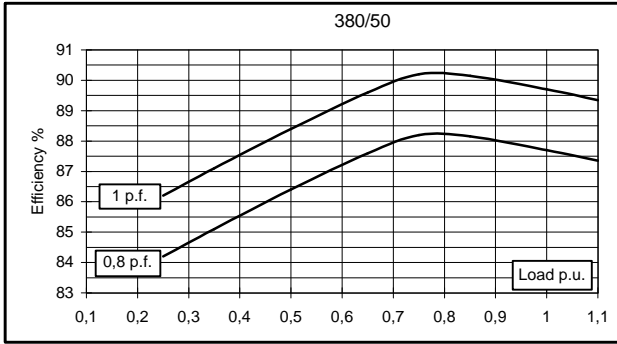
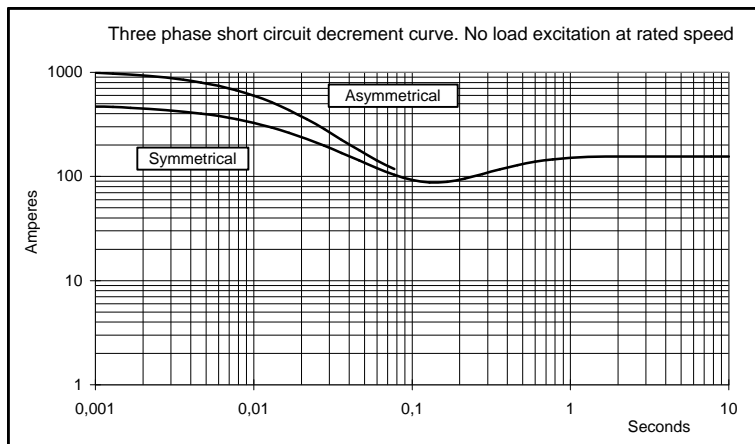
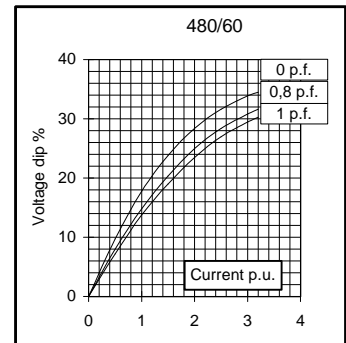
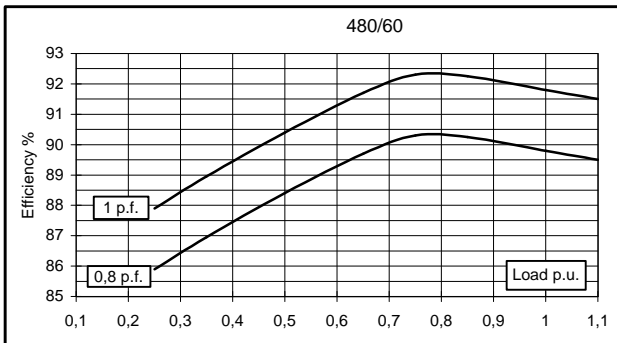
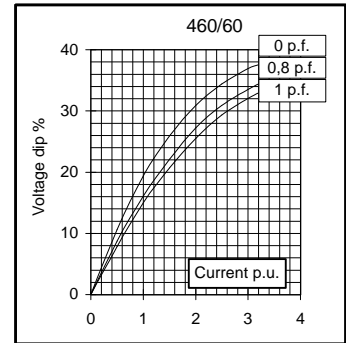
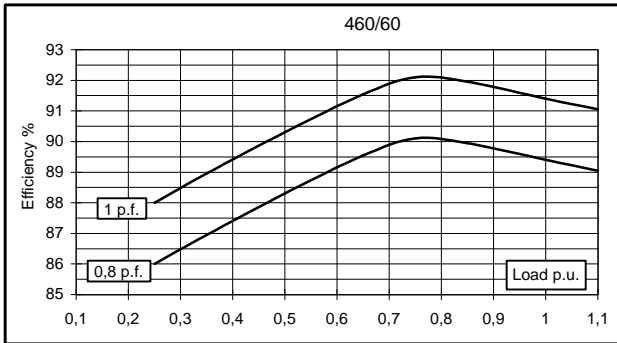
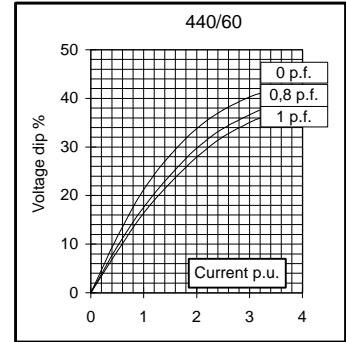
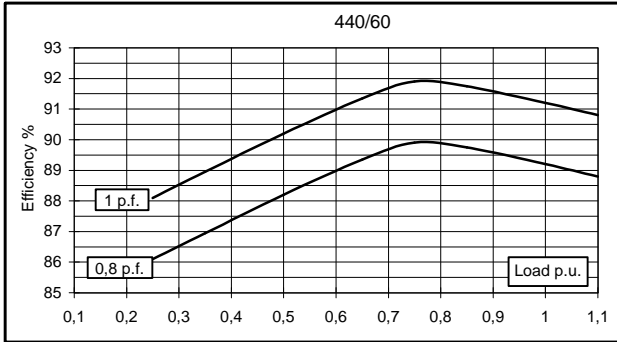
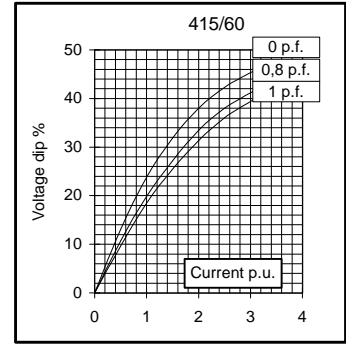
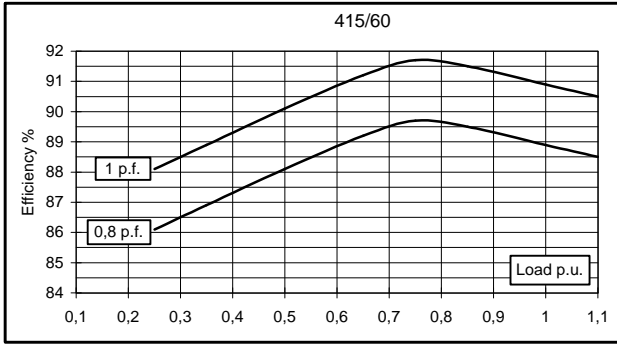


Electrical Characteristics										
Frequency	Hz	50				60				
Voltage (series star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	30	30	28	/	33	36	36	36	
	kW	24	24	22,4	/	26,4	28,8	28,8	28,8	
Rated power class F	kVA	26	26	25	/	29	32	32	32	
	kW	20,8	20,8	20	/	23,2	25,6	25,6	25,6	
Regulation with	SR7/2	±1,5 % with any power factor and speed variations between -5% +30%								
Insulation class		H								
Execution		Brushless								
Stator winding		12 ends								
Rotor		without damping cage								
Efficiencies class H	4/4	%	87,7	88,1	88,4	/	88,9	89,2	89,4	89,8
(see graph. for details)	3/4	%	88,2	88,5	88,6	/	89,7	89,9	90,1	90,3
	2/4	%	86,4	86,5	86,5	/	88,1	88,2	88,3	88,4
	1/4	%	84,2	84	84	/	86,1	86,1	86	85,9
Reactances (f. l.cl. F)	Xd	%	182,8	165	143,1	/	202,3	196,4	179,7	165
	Xd'	%	17,06	15,4	13,35	/	18,89	18,33	16,77	15,4
	Xd''	%	9,75	8,8	7,63	/	10,79	10,47	9,58	8,8
	Xq	%	78,7	71	61,6	/	87,1	84,5	77,3	71
	Xq'	%	78,7	71	61,6	/	87,1	84,5	77,3	71
	Xq''	%	21,1	19	16,5	/	23,3	22,6	20,7	19
	X ₂	%	14,63	13,2	11,45	/	16,19	15,71	14,37	13,2
	X ₀	%	3,10	2,8	2,43	/	3,43	3,33	3,05	2,8
Short Circuit Ratio	Kcc		0,55	0,62	0,68	/	0,38	0,44	0,55	0,62
Time Constants	Td'	sec.	0,046							
	Td''	sec.	0,012							
	Tdo'	sec.	0,93							
	T _α	sec.	0,011							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0,4	0,6	0,8	/	0,35	0,4	0,5	0,55
Excitation at full load	Amp.		1,75	1,96	2,1	/	1,5	1,6	1,8	1,9
Overload (long-term)	%	1 hour in a 6 hours period 110% rated load								
Overload per 20 sec.	%	300								
Stator Winding Resistance (20°C)	Ω	0,106								
Rotor Winding Resistance (20°C)	Ω	1,86								
Exciter Resistance (20 °C)	Ω	Rotor : 0,64				Stator : 10,60				
Heat dissipation at f.l.cl.H	W	3366	3242	2939	/	3296	3487	3415	3271	
Telephone Interference		FHT < 2%				TIF < 45				
Radio interference		EN60034-1. For others standards apply to factory								
Waveform Distors.(THD) at f. load	LL/LN %	2,1 / 2								
Waveform Distors.(THD) at no load	LL/LN %	3,3 / 3,1								
Mechanical characteristics										
Protection		IP 23 (other protection on request)								
DE bearing		6309.2RS								
NDE bearing		6207.2RS								
Weight of wound stator assembly	kg	57								
Weight of wound rotor assembly	kg	32,4								
Weight of complete generator	kg	155								
Maximun overspeed	rpm	2250								
Unbalanced magnetic pull at f.l.cl.F	kN/mm	4,7								
Cooling air requirement	m³/min	5,3				5,8				
Inertia Constant (H)	sec.	0,068				0,081				
Noise level at 1m/7m	dB(A)	68 / 57				71 / 61				

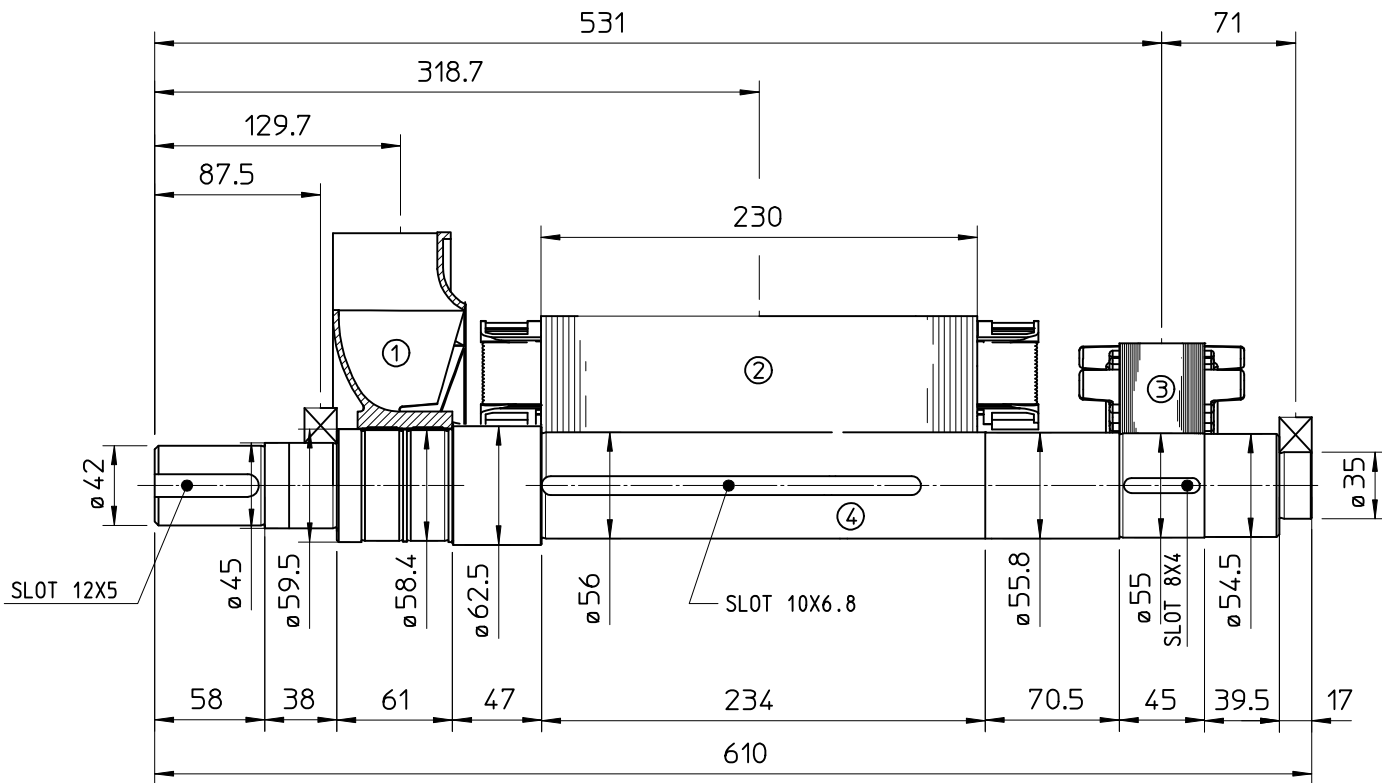
50 Hz



60 Hz

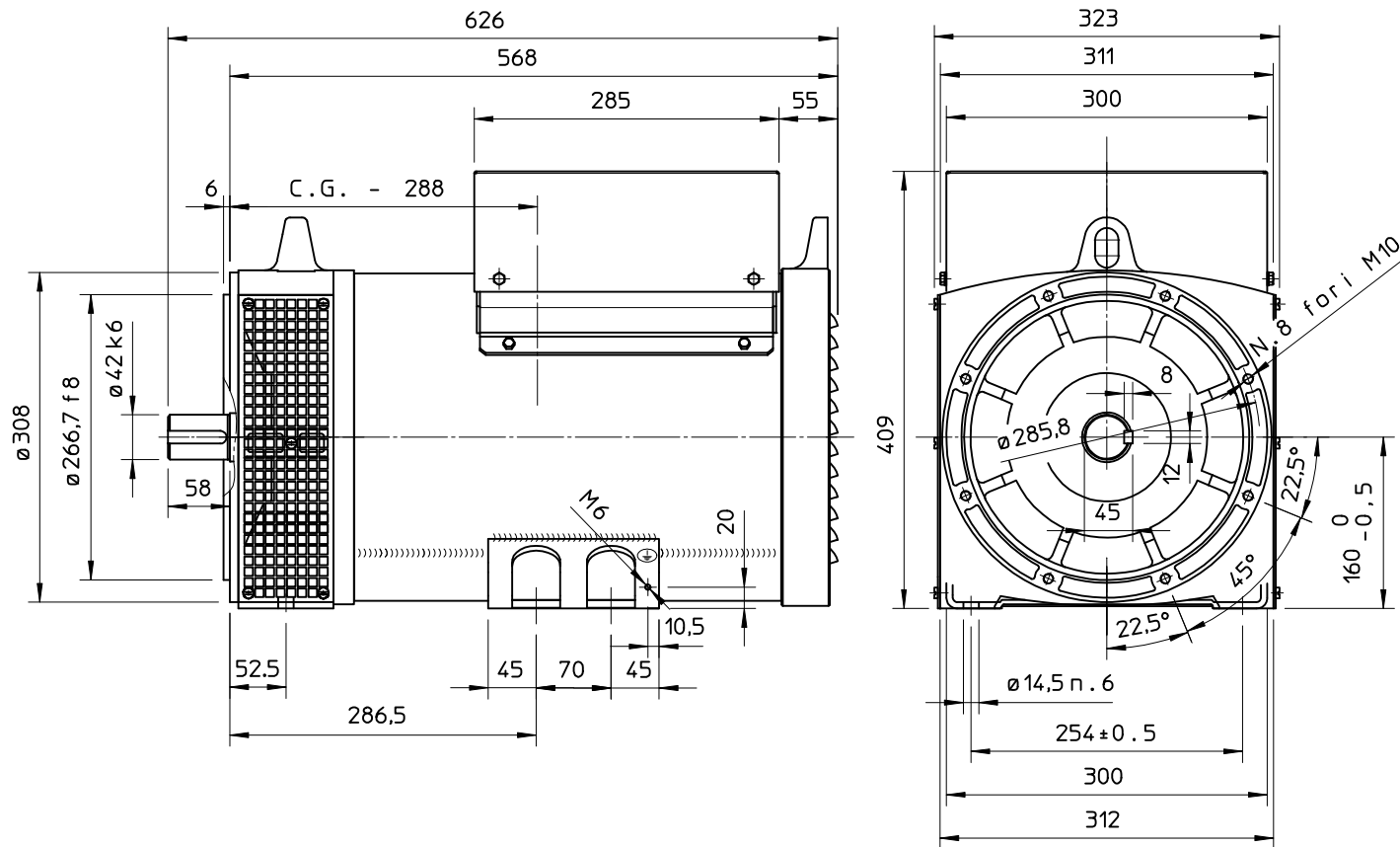


TWO BEARING MOMENTS OF INERTIA



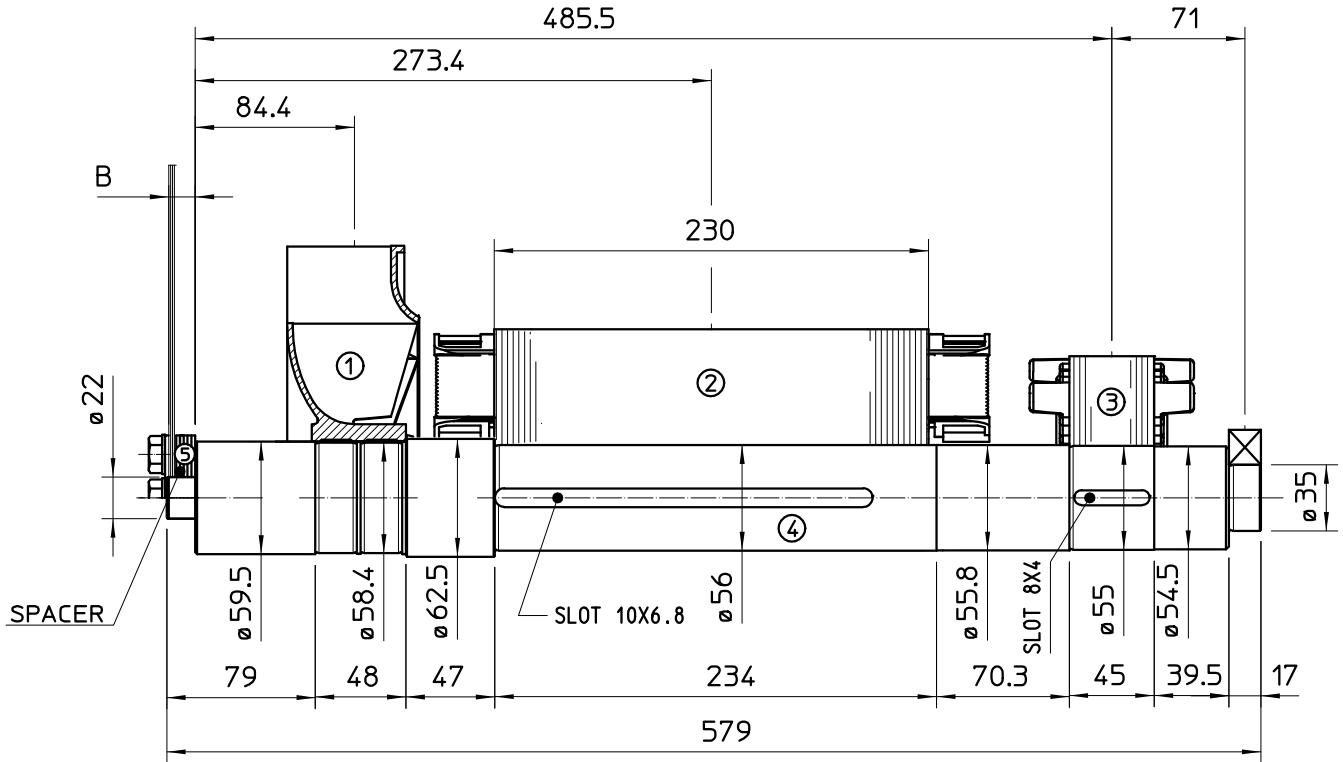
COMPONENT	WEIGHT Kg	J Kg ^{m2}
1 FAN	1.2	0.0102
2 MAIN ROTOR	32.4	0.138
3 EX ROTOR	5.4	0.012
4 SHAFT	11.3	0.0043
6 TOTAL	50.3	0.1645

TWO BEARING DIMENSIONS



C.G. = GRAVITY CENTER

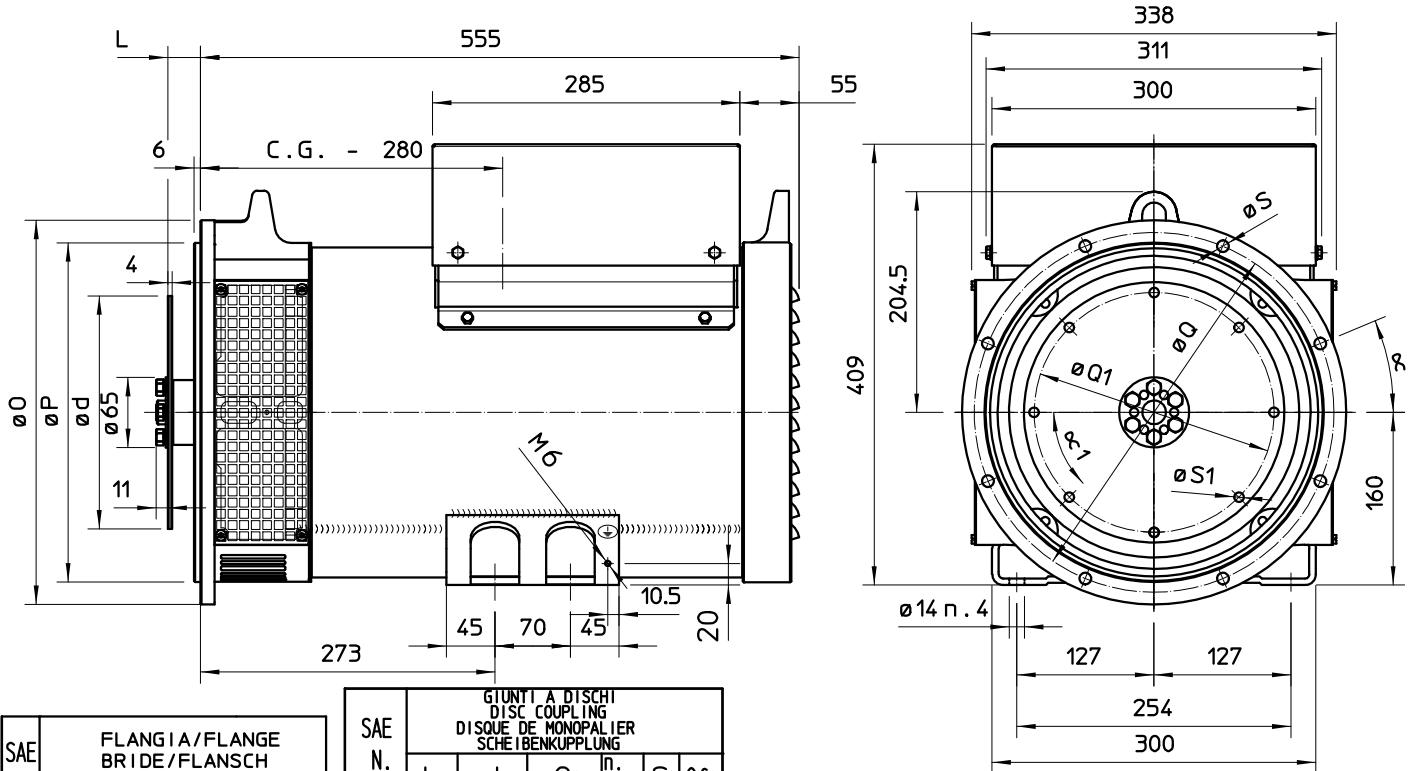
SINGLE BEARING MOMENTS OF INERTIA



COMPONENT	WEIGHT Kg	J Kg ^m ²
1 FAN	1.2	0.0102
2 MAIN ROTOR	32.4	0.138
3 EX ROTOR	5.4	0.012
4 SHAFT	11.2	0.0044
6 TOTAL	50.2	0.1646

SAE N.	5	SHAFT COUPLING FLEX PLATE	
	B (mm)	WEIGHT kg	J kg ^m ²
6 1/2	4	1.14	0.0067
7 1/2	4	1.42	0.0103
8	35.6	1.97	0.0171
10	27.6	2.59	0.0319
11 1/2	14	3.1	0.0481

SINGLE BEARING DIMENSIONS



SAE N.	FLANGIA/FLANGE BRIDE/FLANSCH					
	O	P	Q	n. fori	S	α
5	356	314.3	333.4	8	11	22°30'
4	403	362	381	12	11	15°
3	451	409.6	428.6	12	11	15°
2	489	447.7	466.7	12	11	15°

SAE N.	GIUNTI A DISCHI DISC COUPLING DISQUE DE MONOPALIER SCHEIBENKUPPLUNG					
	L	d	Q1	n. fori	S1	α1
6 1/2	30.2	215.9	200	6	9	60°
7 1/2	30.2	241.3	222.25	8	9	45°
8	62	263.52	244.47	6	11	60°
10	53.8	314.32	295.27	8	11	45°
11 1/2	39.6	352.42	333.37	8	11	45°

C.G. = GRAVITY CENTER